

SYSTEM AND METHODS FOR FACILITATING ADAPTIVE
GRID-BASED DOCUMENT LAYOUT

ABSTRACT OF THE INVENTION

5 A system and methods for facilitating adaptive grid-based document layout. More
particularly, the present invention features a new approach to adaptive grid-based document
layout that utilizes a set of adaptive templates that are configurable in a range of different pages
sizes and viewing conditions. The templates include various element types and constraint-based
relationships that define the layout of elements with reference to viewing conditions under which
10 the document content will be displayed and that define other content properties. Through a
layout engine and paginator, the present invention determines a desirable sequence of templates
to use for adapting document content. Additionally, the present invention provides a template
authoring tool and user interface for interactively drawing and arranging layout elements within
an adaptive template.